

DEEP GROOVE BALL BEARINGS SINGLE ROW

Series: 60... 62... 63... 64... 622.. 623... 160... 618... 619...



Subject	Symbol	Description
Seal type	ZZ	Metal shields on both sides
	2RS	Rubber seals on both sides
	Z	Metal shield on one side
	RS	Rubber seal on one side
Radial internal clearance	C2	Less than normal
	CN	Normal clearance. Is not indicated as a standard
	C3	Greater clearance than normal
	C4	Greater than C3
	C5	Greater than C4
Other technical modifications	NR	Groove with inserted snap ring in outer ring
	N	Snap ring groove in the outer ring
	SS	Stainless steel
Cage type	M	Brass cage ball guided
	MB	Brass cage, inner ring centered
	MA	Brass cage, outer ring centered
Speed ratings	V	Normal vibration level. Is not indicated as a standard
	V2	Lower vibration level than normal
	V3	Lower vibration level than V2
	V4	Lower vibration level than V3
Tolerances	P0	Normal tolerance level. Is not indicated as a standard
	P6	Greater tolerance level than P0
	P5	Greater tolerance level than P6

Features

Single row deep groove ball bearings are most frequently used bearing type. They are versatile, self-retaining bearings with solid outer rings, inner rings and ball and cage assemblies. Due to their low frictional torque, they are suitable for high and even very high speeds and are robust in operation, little maintenance. Due to the raceway geometry and the balls used as rolling elements, deep groove ball bearings can support relatively high radial loads, as well as small axial loads.

Sealing and lubrication

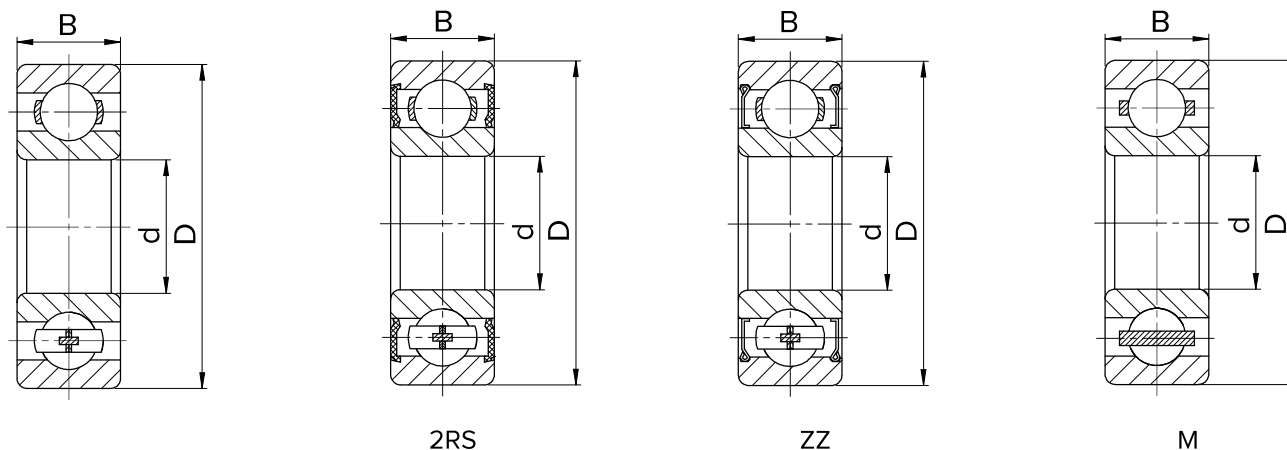
The most popular sizes of deep groove ball bearings are also produced in sealed versions. These bearings with Z and ZZ are greased using a high quality grease, lubricated for life and suitable for high speeds. Bearings with the suffix RS or 2RS have lip seals on one or both sides made from nitrile butadiene rubber. CRAFT bearings grease is a low noise bearing grease which is thickened by lithium 12-hydroxy stearic, it is made from deeply refined mineral oil with rust and oxidation inhibitors through special technical process. Applied temperature range -20 C - +120 C.

Radial internal clearance

Bearing internal clearance is defined as the total distance through which one bearing ring can be moved relative to the other in the radial direction (radial internal clearance). CRAFT bearings single row deep groove ball bearings are manufactured with normal radial internal clearance as standard (CN). Most of the bearings are also available with C3 radial internal clearance. Depending on working conditions you can choose bearing with different internal clearances, the values of radial internal clearance are in accordance to ISO 5753:1 and are valid for unmounted bearings under zero measuring load.

Cages

CRAFT single row deep groove ball bearings are supplied with one of the following cages: steel cage or brass cage. Single row deep groove ball bearings without a cage suffix have a steel cage. Most frequently deep groove ball bearing with ball-guided solid brass cages are indicated by suffix M. These brass cage bearings can also be with inner ring centered (MB), or outer ring centered (MA).



ISO	GOST	Dimensions (mm)			Basic Load Ratings (N)		Limiting speed (r/min)		Weight (kg)
							Lubrication		
		d	D	B	Dyn. C	Stat. C ₀	Grease	Oil	
6000	100	10	26	8	4620	1960	29000	34000	0,020
6000 ZZ	80100	10	26	8	4620	1960	29000	34000	0,020
6000 2RS	180100	10	26	8	4620	1960	19000	-	0,020
6001	101	12	28	8	5070	2360	26000	30000	0,021
6001 ZZ	80101	12	28	8	5070	2360	26000	30000	0,021
6001 2RS	180101	12	28	8	5070	2360	17000	-	0,021
6002	102	15	32	9	5590	2850	22000	26000	0,032
6002 ZZ	80102	15	32	9	5590	2850	22000	26000	0,032
6002 2RS	180102	15	32	9	5590	2850	16000	-	0,032
6003	103	17	35	10	6050	3250	20000	24000	0,039
6003 ZZ	80103	17	35	10	6050	3250	20000	24000	0,039
6003 2RS	180103	17	35	10	6050	3250	12000	-	0,039
6004	104	20	42	12	9360	5000	18000	21000	0,070
6004 ZZ	80104	20	42	12	9360	5000	18000	21000	0,070
6004 2RS	180104	20	42	12	9360	5000	10000	-	0,070
6005	105	25	47	12	11200	6550	15000	18000	0,082
6005 ZZ	80105	25	47	12	11200	6550	15000	18000	0,082
6005 2RS	180105	25	47	12	11200	6550	9000	-	0,082
6006	106	30	55	13	13300	8300	13000	15000	0,124
6006 ZZ	80106	30	55	13	13300	8300	13000	15000	0,124
6006 2RS	180106	30	55	13	13300	8300	7500	-	0,124
6007	107	35	62	14	15900	10200	12000	14000	0,161
6007 ZZ	80107	35	62	14	15900	10200	12000	14000	0,161
6007 2RS	180107	35	62	14	15900	10200	6500	-	0,161
6008	108	40	68	15	16800	11600	10000	12000	0,197
6008 ZZ	80108	40	68	15	16800	11600	10000	12000	0,197
6008 2RS	180108	40	68	15	16800	11600	5800	-	0,197
6009	109	45	75	16	20800	14600	9200	11000	0,254
6009 ZZ	80109	45	75	16	20800	14600	9200	11000	0,254
6009 2RS	180109	45	75	16	20800	14600	5300	-	0,254
6010	110	50	80	16	21600	16000	8400	9800	0,279
6010 ZZ	80110	50	80	16	21600	16000	8400	9800	0,279
6010 2RS	180110	50	80	16	21600	16000	4800	-	0,279
6011	111	55	90	18	28100	21200	7700	9000	0,405
6011 ZZ	80111	55	90	18	28100	21200	7700	9000	0,405
6011 2RS	180111	55	90	18	28100	21200	4300	-	0,405
6012	112	60	95	18	29600	23200	7000	8300	0,428
6012 ZZ	80112	60	95	18	29600	23200	7000	8300	0,428
6012 2RS	180112	60	95	18	29600	23200	4000	-	0,428
6013	113	65	100	18	30700	25000	6500	7700	0,458
6013 ZZ	80113	65	100	18	30700	25000	6500	7700	0,458
6013 2RS	180113	65	100	18	30700	25000	3700	-	0,458
6014	114	70	110	20	37700	31000	6100	7100	0,635
6014 ZZ	80114	70	110	20	37700	31000	6100	7100	0,635
6014 2RS	180114	70	110	20	37700	31000	3500	-	0,635

ISO	GOST	Dimensions (mm)			Basic Load Ratings (N)		Limiting speed (r/min)		Weight (kg)
							Lubrication		
		d	D	B	Dyn. C	Stat. C ₀	Grease	Oil	
6015	115	75	115	20	39700	33500	5700	6700	0,673
6015 ZZ	80115	75	115	20	39700	33500	5700	6700	0,673
6015 2RS	180115	75	115	20	39700	33500	3300	-	0,673
6016	116	80	125	22	47500	40000	5300	6200	0,877
6016 ZZ	80116	80	125	22	47500	40000	5300	6200	0,877
6016 2RS	180116	80	125	22	47500	40000	3100	-	0,877
6017	117	85	130	22	49400	43000	5000	5900	0,932
6017 ZZ	80117	85	130	22	49400	43000	5000	5900	0,932
6017 2RS	180117	85	130	22	49400	43000	2900	-	0,932
6018	118	90	140	24	58500	50000	4700	5600	1,190
6018 ZZ	80118	90	140	24	58500	50000	4700	5600	1,190
6018 2RS	180118	90	140	24	58500	50000	2700	-	1,190
6019	119	95	145	24	60500	54000	4500	5300	1,247
6019 ZZ	80119	95	145	24	60500	54000	4500	5300	1,247
6019 2RS	180119	95	145	24	60500	54000	2500	-	1,247
6020	120	100	150	24	60500	54000	4200	5000	1,340
6020 ZZ	80120	100	150	24	60500	54000	4200	5000	1,340
6020 2RS	180120	100	150	24	60500	54000	2400	-	1,340
6021	121	105	160	26	72800	65500	4000	4700	1,690
6021 ZZ	80121	105	160	26	72800	65500	4000	4700	1,690
6021 2RS	180121	105	160	26	72800	65500	2300	-	1,690
6022	122	110	170	28	81900	73500	3800	4500	2,023
6022 ZZ	80122	110	170	28	81900	73500	3800	4500	2,023
6022 2RS	180122	110	170	28	81900	73500	2200	-	2,023
6024	124	120	180	28	85200	80000	3200	3800	2,213
6024 ZZ	80124	120	180	28	85200	80000	3200	3800	2,213
6024 2RS	180124	120	180	28	85200	80000	2100	-	2,213
6026	126	130	200	33	104000	100000	3200	3800	3,270
6026 ZZ	80126	130	200	33	104000	100000	3200	3800	3,270
6026 2RS	180126	130	200	33	104000	100000	1900	-	3,270
6028	128	140	210	33	110000	109000	3000	3500	3,547
6028 ZZ	80128	140	210	33	110000	109000	3000	3500	3,547
6028 2RS	180128	140	210	33	110000	109000	1800	-	3,547
6030	130	150	225	35	131000	124000	2800	3200	4,880
6030 ZZ	80130	150	225	35	131000	124000	2800	3200	4,880
6030 2RS	180130	150	225	35	131000	124000	1600	-	4,880
6032	132	160	240	38	136000	135000	2600	3000	6,073
6032 ZZ	80132	160	240	38	136000	135000	2600	3000	6,073
6032 2RS	180132	160	240	38	136000	135000	1500	-	6,073
6034	134	170	260	42	168000	173000	2400	2800	7,175
6034 ZZ	80134	170	260	42	168000	173000	2400	2800	7,175
6036	136	180	280	46	180000	184000	2300	2700	10,57
6036 ZZ	80136	180	280	46	180000	184000	2300	2700	10,57
6038	138	190	290	46	188000	200000	2100	2500	11,08
6038 ZZ	80138	190	290	46	188000	200000	2100	2500	11,08
6040	140	200	310	51	201000	222000	2000	2400	14,10
6040 ZZ	80140	200	310	51	201000	222000	2000	2400	14,10
6044	144	220	340	56	247000	290000	1800	2200	18,50
6048	148	240	360	56	255000	315000	1700	2000	20,00
6052	152	260	400	65	291000	375000	1500	1800	28,50
6056	156	280	420	65	325000	420000	1400	1600	31,00
6060	160	300	460	74	355000	480000	1300	1500	43,50
6064	164	320	480	74	371000	540000	1200	1400	46,00
6068	168	340	520	82	423000	640000	1100	1300	62,00
6072	172	360	540	82	462000	735000	1100	1200	64,50
6076	176	380	560	82	470000	750000	990	1200	67,50
6080	180	400	600	90	520000	865000	930	1100	87,50
6084	184	420	620	90	530000	895000	880	1000	91,00